3R - 212

REPORTS

DATE:



Certified Mail: #7001 1940 0003 1553 8513

February 28, 2002

RECEIVED

MAR 0 4 2002

ENVIRONMENTAL BUREAU OIL CONSERVATION DIVISION

Mr. William C. Olson New Mexico Oil Conservation Division 1220 St. Francis Dr. Santa Fe, NM 87504

RE: 2001 Pit Project Annual Groundwater Report

Dear Mr. Olson:

In accordance with reporting requirements, El Paso Field Services (EPFS) has enclosed annual reports for the 30 remaining groundwater impacted sites that were identified during our pit closure project of 1994 / 1995.

EPFS has organized the 30 reports (Volumes IA, IB, II and III), reports by land type. Volume IA and IB contain annual reports for sites found on Federal land. Volume II contains Non Federal sites and Volume III contains sites on Navajo land. Of the 30 reports submitted EPFS is requesting closure of three sites located on Navajo lands. Of the three Navajo sites submitted for closure OCD has closed the Charley Pah #4 and the John Charles #8. The Rementa et al #1 has not been closed by either agency. EPFS understands closure of groundwater sites on Navajo land falls under jurisdiction of the Navajo Environmental Protection Agency and original documents have been submitted to them for review. Other Navajo sites are included in the report for your information.

The Jaquez Com. C #1 and Jaquez Com. E #1 site is not included in with this report and will be submitted by the required deadline of April 1, 2002.

If you have any questions concerning the enclosed reports, please call me at (505) 599-2124.

Sincerely,

Scott T. Pope P.G. Senior Environmental Scientist

xc: Mr. Denny Foust, NMOCD, Aztec - w / enclosures; Certified Mail # 7001 1940 0003 1553 8506
 Mr. Bill Liesse, BLM - w / enclosures (federal sites only), Certified Mail # 7001 1940 0003 1553 8520

SAN JUAN BASIN PIT CLOSURES

San Juan Basin, New Mexico

El Paso Field Services Pit Project Groundwater Sites Annual Report Volume IB-Federal Sites

March 2002

Prepared for

El Paso Field Services Farmington, New Mexico





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ENVIRONMENTAL BUREAU OIL CONSERVATION DIVISION

EL PASO FIELD SERVICES ANNUAL GROUNDWATER REPORT

FEDERAL SITES VOLUME IB

TABLE OF CONTENTS

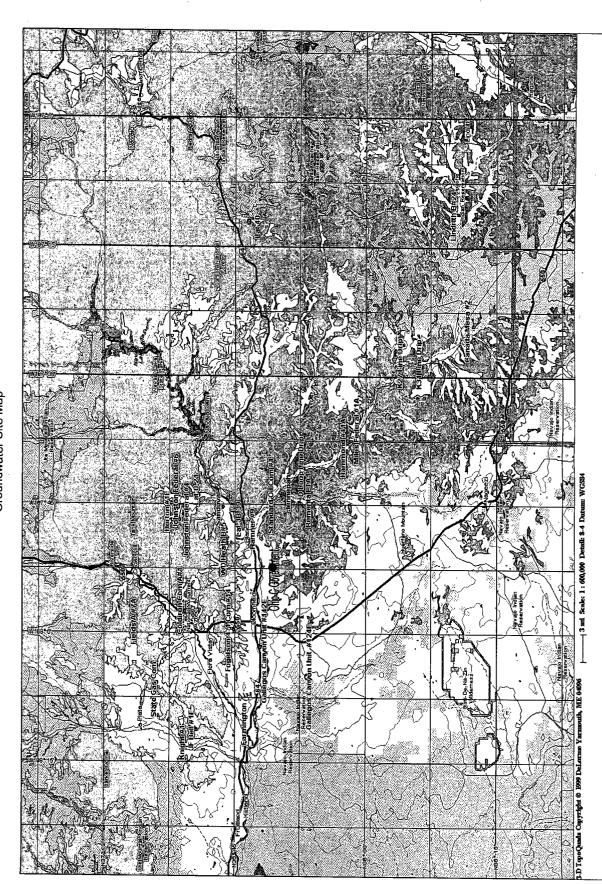
Site Map

| METER or LINE ID | SITE NAME | TOWNSHIP | RANGE | SECTION | UNIT |
|------------------|----------------------|----------|-------|---------|------|
| 97213 | Hamner #9 | 29N | 09W | 20 | A |
| 72890 | Ohio C Government #3 | 28N | 11W | 26 | Ρ |
| LD169 | D Loop Line Drip | 28N | 08W | 33 | I. |
| LD174 | LAT LD 40 | 28N | 04W | 13 | Н |
| 89894 | Hammond #41A | 27N | 08W | 25 | 0 |
| 94810 | Miles Fed 1A | 26N | 07W | 5 | F |
| LD072 | K27 LD072 | 25N | 06W | 4 | Ε |
| 87640 | Canada Mesa #2 | 24N | 06W | 24 | ł |





MONTGOMERY WATSON HARZA



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Groundwater Site Map





EPFS GROUNDWATER PITS 2001 ANNUAL GROUNDWATER REPORT

LAT L-40

Meter Code LD174

SITE DETAILS

| Legals | Twn: 28N | Rng: 04W | Sec: | 13 | UNIT: H |
|--------|----------------|------------|---------|----|----------------|
| NMOCD | Haz Ranking 20 | Land Type: | Federal | | Operator: EPFS |

PREVIOUS ACTIVITIES

Site Assessment: Feb-95 Excavation Mar-95 Soil Boring: Sep-95 Monitor Well: Sep-95 Geoprobe: Additional MWs: Downgradient MW's: NA Replace MW: NA NA PSH Removal Initiated: Jan-98 ORC Nutrient Injection NA Re-Excavation: NA Quarterly Initiated NA Annual Initiated NA Quarterly Resumed: NA

2001 ACTIVITY

Phase Separated Hydrocarbons (PSH) Removal - PSH removal from MW-1 continued through 2001.

Specific Gravity - A Specific Gravity sample was taken September 12, 2001 and the results were, 0.733 g/cc

*** Attempted July 2000, encountered refusal.

SUMMARY TABLES AND GRAPHS

Groundwater levels and product removal are presented in Product Removal Table. Included is a BTEX Data graph for MW-1 and Free Product Recovery graph for MW-1.

SITE MAP

Site Maps with BTEX concentrations and groundwater elevations are attached.

GEOLOGIC LOGS AND WELL COMPLETION DIAGRAMS

No drilling activities were done at this site in 2001.

DISPOSITION OF GENERATED WASTES

All PSH removed was disposed of at the Kutz Separator in Bloomfield, New Mexico.





EPFS GROUNDWATER PITS 2001 ANNUAL GROUNDWATER REPORT

LAT L-40

Meter Code: LD174

ISOCONCENTRATION MAPS

No isoconcentration maps were generated for this site.

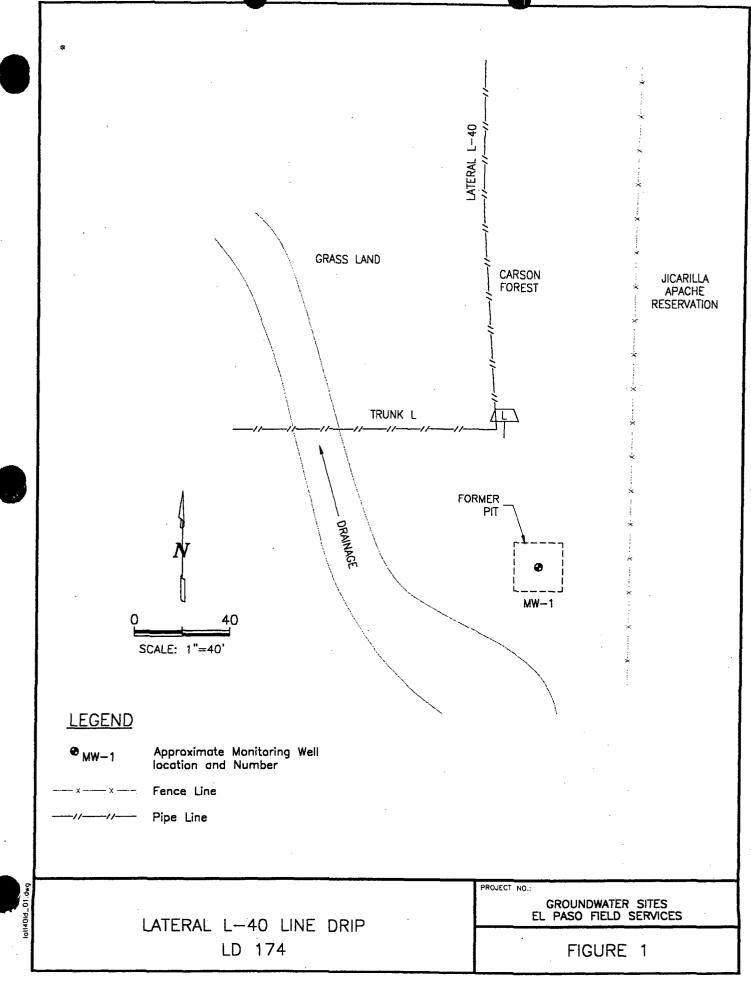
CONCLUSIONS

A total of 6.8 gallons of phase separated hydrocarbons were removed from MW-1 during 2001. A cumulative of 21.98 gallons of phase separated hydrocarbons have been recovered since the inception of product recovery at this site.

Installation of additional borings and wells was attempted in 2000 and has consistently met with refusal. No new attempts to install additional wells were made in 2001.



- > Continue product recovery in MW-1 as needed, then sample annually.
- Continue annual monitoring in MW-1, until groundwater constituents are near New Mexico groundwater standards, then sample quarterly for closure.
- > Following OCD approval of closure, monitoring wells will be abandoned per OCD guidelines.



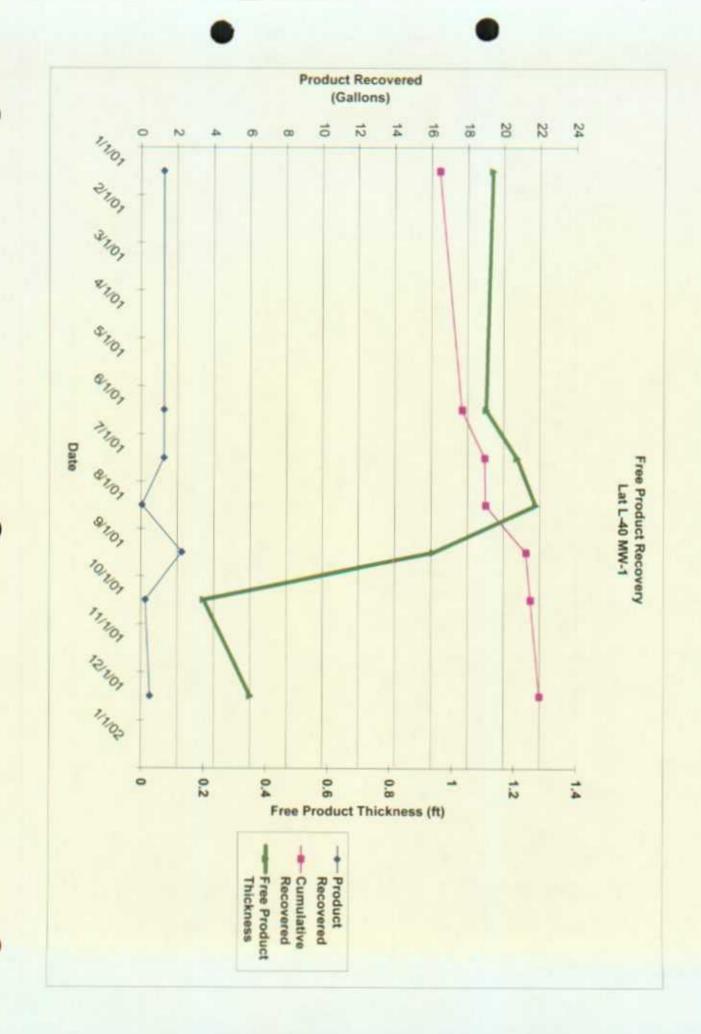
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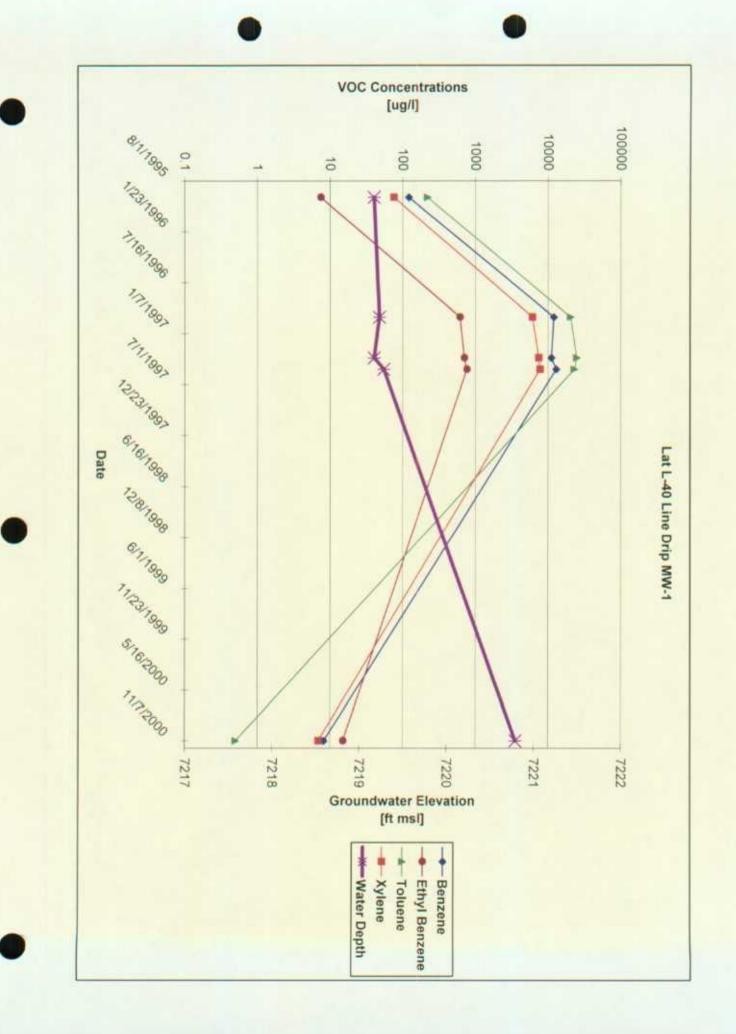
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| | Meter Line | Site Name | MW# | Date | Depth to Product | Depth to Water | Product Thickness | Volume Removed | Cumulative Total |
|---|------------|-----------|----------|------------|------------------|----------------|-------------------|----------------|-------------------------|
| | | | | | (feet) | (feet) | (feet) | (Gallons) | (Gallons) |
| | LD174 | LAT LD 40 | - | 1/2/2001 | 37.95 | 39.08 | 1.13 | 1.25 | 16.43 |
| | LD174 | LAT LD 40 | | 6/8/2001 | 37.89 | 39 | 1.11 | 1.25 | 17.68 |
| | LD174 | LAT LD 40 | <u> </u> | 7/2/2001 | 37.93 | 39.14 | 1.21 | 1.25 | 18.93 |
| | LD174 | LAT LD 40 | | 8/3/2001 | 37.83 | 39.1 | 1.27 | 0.05 | 18.98 |
| | LD174 | LAT LD 40 | | 9/12/2001 | 38.02 | 38.96 | 0.94 | 2.25 | 21.23 |
| | LD174 | LAT LD 40 | - | 10/12/2001 | 38.19 | 38.43 | 0.2 | 0.25 | 21.48 |
| - | LD174 | LAT LD 40 | | 12/13/2001 | 38.40 | 38.75 | 0.35 | 0.5 | 21.98 |
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ATTACHMENT 1

2001 GROUNDWATER ANALYTICAL



| Project Name: | $20^{\pm2}$ | <u>_G.w</u> | <u></u> | | | - | Project No. | • • • • • • • • • • • • • • • • • • • | <u>n 1975 - 1975 - 1975 - 1975 - 1975 - 1975 - 1975 - 1975 - 1975 - 1975 - 1975 - 1975 - 1975 - 1975 - 1975 - 19</u> |
|--------------------|-------------|------------------------|--|--------------------------|---------------------------------------|----------------------------|---|---------------------------------------|--|
| Project Mngr: | , | | , | | | • · · | Task: | | |
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| Site Name: | | | (LOI7) | 4) | | · | | | |
| Well or Piezometer | Time | Reason Not Measured | Depth to Floating Product (Feet) | Depth to Water (Feet) | Depth to Sinking Product (Feet) | Total Well Depth (Feet) | Floating Product Thickness, | Sinking Product Thickness | Comments |
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Comments:

Signature:

Date:

12-13-61

| roject Mana | Epts R Berlisa | winn | | | • | | Project No Cost Code Date 10 - | |
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| lient Compa lite Name | AT LL | $\frac{10}{10}$ | <u>[]]]</u> | 74) | · | | Date <u>/()</u> - | |
| Wali o . Piezometer | Time | Reason Not Measured | Depth to Floating Product (Feet) | Dep:h to Water (Feet) | Depth to Sinking Product (Feet) | Total Well Depth (Feet) | Trochor | Sinuite Approxim Products portominent STRIBRICES Recours |
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| Project Name EpFS Remedicition project |
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| Project Manager ISA winn |
| Client Company 51 pr 50 Field Services |
| Site Name LAT LIKO (LD174) |

| Project No. | 6/69 |
|-------------|------|
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Cost Code_____

Date 9-12-01

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| | MW 1 | 1120 | | 38.02 | 38.96 | | 52,34 | 2,25% |
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Reason Not Measured: D = Dry; O = Obstructed; N = Not Accessible

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Date 9-12-01

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| Project Name OFS Remediation project |
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| Project Manager LISA winn |
| Client CompanyEL DASO Field Services |
| Site Name <u>AT 40 (LN174</u>) |

| Project No. <u>6/69</u> | , |
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| Cost Code |
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Date 8 - 3 - Ol Friday

Date 8 - 7-01

| Well or Piezometer | Time | Reason Not Measured | Depth to Floating Product (Feet) | Depth to Water (Feet) | Depth to Sinking Product (Feet) | Total Well Depth (Feet) | Antipolitical and Sinking product Product reproduct Product Thiokness wantickness Recovery Comments |
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| Project Name Spf5 Remedial | ion project |
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| Project Manager Lis A winn | •) |
| Client CompanyEL paso F.Elb | Securices |
| Site Name LATLELIO | LD 174 |

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Comments NO water Recovered

Signature Chio A-Ma

Date 7 2 - 01





| Project Name EpFS Remediation project |
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| Project Manager LiSA Winn |
| Client CompanyEL paso Field Scruces |
| Site Name LAT L 40 (LD 174) |

Project No. 6/69

Cost Code_____

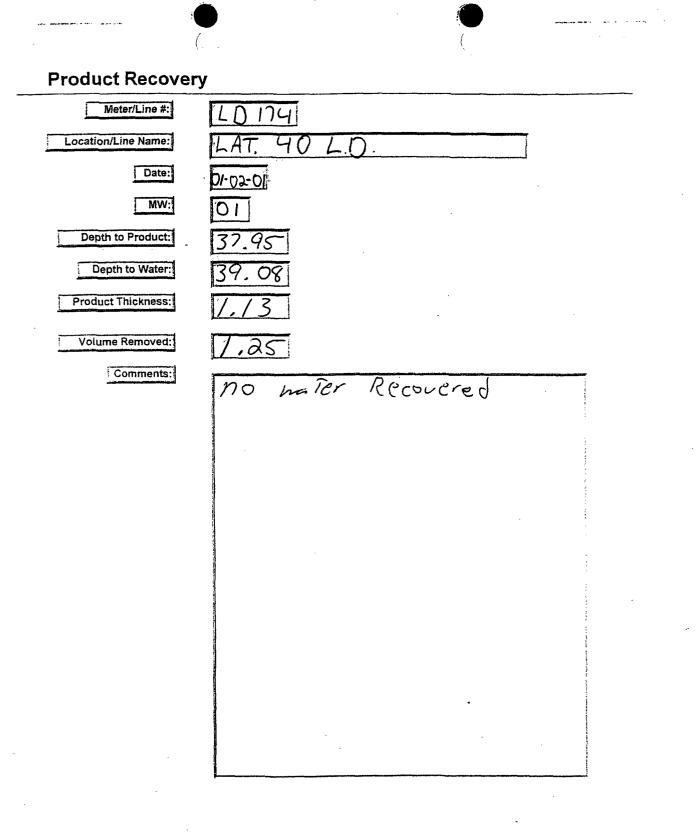
Date <u>6 - 8 - 01</u>

| Well or Piezometer | Time | Reason Not Measured | Depth to Floating Product (Feet) | Depth to Water (Feet) | Depth to Sinking Product (Feet) | Total Well Depth (Feet) | Floatine Product Thickness | Sinking Broduste Thickness | Approximate P Constants Recovery Gallons |
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Reason Not Measured: D = Dry; O = Obstructed; N = Not Accessible

Comments NO water Recovered Signature A. May

Date 6 - 8 - 0/



Phone (505) 326-4737 Fax (505) 325-4182

Inter Countain Laboratories, Inc.

2506 West Main Street, Farmington, NM 87401

Date: 9/11/01

Client: Golden Environmental Management

Lab ID: 0301W03833 - 3843

Project: G169

Dear Client:

The samples were received for analysis at Inter-Mountain Laboratories (IML), Farmington, New Mexico. Enclosed are the results of these analyses.

Comment:

Analytical results were obtained by approved methods. Sample analyses were obtained within the method specific holding times. Practical Quantitation Limits (PQL's) are based on method requirements, and any dilutions necessary to maintain proper method response without matrix interference.

If you have any questions, please call me at (505) 326-4737.

William Lipps

IML-Farmington, NM

| د ` | Ó | А | nalytical Repo | ort 🔴 | | 06 West Main Stree rmington, NM 87401 |
|------------|-----------------|-----------------|-----------------------------|-------|----------------|--|
| Client: | Golden Environm | | | | | Page 1 of 1 |
| Project: | G169 | | | | Date Received: | 09/06/01 |
| IML Set: | 0301W03833 | | | | Date Reported: | 09/11/01 |
| Lab Id | Sample Id | Date Sampled | Specific Gravity g/cc | | | |
| 0301W03833 | LIN-0109-MW1 | 09/04/01 | 0.811 | | | |
| 0301W03834 | CAN-0109-MW1 | 09/04/01 | 0.736 | | | |
| 0301W03835 | GAL-0109-MW1 | 09/04/01 | 0.833 | | | |
| 0301W03836 | JFB-0109-MW3 | 09/04/01 | 0.773 | | | |
| 0301W03837 | 072-0109-MW2 | 09/04/01 | 0.751 | | | |
| 0301W03838 | MIL-0109-MW1 | 09/04/01 | 0.754 | | | |

Reviewed By: 11

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Analytical Report

2506 West Main Street Farmington, NM 87401

| Client: | Golden Environm | ental Mana | gement | | | Page 1 of 1 |
|-------------|-----------------|-----------------|-----------------------------|---------|----------|-------------|
| Project: | G169 | | | Date Re | eceived: | 09/06/01 |
| IML Set: | 0301W03839 | | | Date Re | eported: | 09/11/01 |
| Lab Id | Sample Id | Date Sampled | Specific Gravity g/cc | | | |
| 0301W03839 | JOH-0109-MW1 | 09/05/01 | 0.750 | | • | |
| 0301W03839D | JOH-0109-MW1 | 09/05/01 | 0.751 | | | |
| 0301W03840 | JON-0109-MW1 | 09/05/01 | 0.757 | | | |
| 0301W03841 | KNI-0109-MW1 | 09/05/01 | 0.790 | | | |
| 0301W03842 | STA-0109-MW3 | 09/05/01 | 0.741 | | | |
| 0301W03843 | JEN-0109-MW1 | 09/05/01 | 0.761 | | | |

Reviewed By:

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UISTRIBUTION: White - PLI, Canary - Or HALLNE!

Phone (505) 326-4737 Fax (505) 325-4182

Inter-Mountain Laboratories, Inc.

2506 West Main Street, Formington, NM 87401

Date:9/18/01Client:Golden Environmental ManagementLab ID:0301W03917

G169

Dear Client:

Project:

The sample was received for analysis at Inter-Mountain Laboratories (IML), Farmington, New Mexico. Enclosed are the results of these analyses.

Comment:

Analytical results were obtained by approved methods. Unless otherwise noted, sample analyses were obtained within the method specific holding times.

If you have any questions, please call me at (505) 326-4737.

William Lipps / IML-Farmington, NM

| Par | ameter | Analytical Result | Units | | Units | PQL | Method | Ana Date | alysis Time | lnit. |
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| Lab ID: | 0301W03917 | | | | | | | Reported | | |
| Sample ID: | 174-0109-MW1 | | | | | | Date F | Received | : 09/1 | 2/01 |
| Project: | G169 | | | | | | | | | |
| Client: | Golden Environme | ntal Manageme | ent | | | | | | | |
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Reference: SM - "Standard Methods for the Examination of Water and Wastewater", APHA-AWWA-WEF, 19th Edition, 1995.

Reviewed By:

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Inter-Mountain Laboratories, Inc.

Phone (505) 326-4737 Fax (505) 325-4182

2506 West Main Street, Farmington, NM 87401

| Date: | 9/18/01 |
|----------|---------------------------------|
| Client: | Golden Environmental Management |
| Lab ID: | 0301W03917 |
| Project: | G169 |

Dear Client:

The sample was received for analysis at Inter-Mountain Laboratories (IML), Farmington, New Mexico. Enclosed are the results of these analyses.

Comment:

Analytical results were obtained by approved methods. Unless otherwise noted, sample analyses were obtained within the method specific holding times.

If you have any questions, please call me at (505) 326-4737.

William Lipps / IML-Farmington, NM

| | | 2506 West Main Stree |
|------------|---------------------------------|-------------------------|
| | | Farmington, NM 8740 |
| Client: | Golden Environmental Management | |
| Project: | G169 | |
| Sample ID: | 174-0109-MW1 | Date Received: 09/12/01 |
| Lab ID: | 0301W03917 | Date Reported: 09/18/01 |
| Matrix: | Water | Date Sampled: 09/12/01 |
| Condition: | N/A | Time Sampled: 1200 |

| | Analytical | | | | Analysis | |
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| L <u></u> | | | | | | |
| Specific Gravity | 0.733 | g/cc | 0.001 | SM 2710F | 09/14/01 1400 | ZW |

Reference: SM - "Standard Methods for the Examination of Water and Wastewater", APHA-AWWA-WEF, 19th Edition, 1995.

Reviewed By:

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